

# List of Academic Publications

## Leonardo Gabrielli

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### PEER-REVIEWED JOURNAL PAPERS

- 2013 A digital waveguide-based approach for Clavinet modeling and synthesis** (Leonardo Gabrielli, Vesa Välimäki, Henri Penttinen, Stefano Squartini, Stefan Bilbao), *In EURASIP Journal on Advances in Signal Processing*, Springer, volume 2013, pp. 103, 2013.
- 2013 A Real-Time Dual-Channel Speech Reinforcement System for Intra-Cabin Communication** (Francesco Faccenda, Stefano Squartini, Emanuele Principi, Leonardo Gabrielli, Francesco Piazza), *In J. Audio Eng. Soc.*, volume 61, pp. 889-910, 2013.
- 2012 Self-powered Sensor Networks for Water Grids: Challenges and Preliminary Evaluations** (Matteo Mencarelli, Mirco Pizzichini, Leonardo Gabrielli, Susanna Spinsante, Stefano Squartini), *In Journal of Selected Areas in Telecommunications*, volume October edition, 2012.
- 2011 Adaptive linear prediction filtering in DWT domain for real-time musical onset detection** (L. Gabrielli, F. Piazza, S. Squartini), *In EURASIP Journal on Advances in Signal Processing*, volume 2011, 2011.

### CONFERENCE PAPERS

- 2014 A Nonlinear Second-Order Digital Oscillator for Virtual Acoustic Feedback** (Leonardo Gabrielli, Marco Giobbi, Stefano Squartini, Vesa Välimäki), *In ICASSP, IEEE International Conference on Acoustics, Speech and Signal Processing*, 2014.
- 2014 Adaptive Digital Oscillator for Virtual Acoustic Feedback** (Leonardo Gabrielli, Marco Giobbi, Stefano Squartini, Vesa Välimäki), *In Audio Engineering Society 136th Convention*, 2014.
- 2014 Multi-resolution Linear Prediction Based Features for Audio Onset Detection with Bidirectional LSTM Neural Networks** (Erik Marchi, Giacomo Ferroni, Florian Eyben, Leonardo Gabrielli, Stefano Squartini, Bjorn Schuller), *In ICASSP, IEEE International Conference on Acoustics, Speech and Signal Processing*, 2014.
- 2013 Wireless M-Bus sensor nodes in smart water grids: The energy issue** (S. Squartini, L. Gabrielli, M. Mencarelli, M. Pizzichini, S. Spinsante, F. Piazza), *In Intelligent Control and Information Processing (ICICIP), 2013 Fourth International Conference on*, pp. 614-619, 2013.
- 2013 Advancements and Performance Analysis on the Wireless Music Studio (WeMUST) framework** (Leonardo Gabrielli, Stefano Squartini, Francesco Piazza), *In AES 134th Convention*, 2013.
- 2013 A Finite Difference Method for the Excitation of a Digital Waveguide String Model** (Leonardo Gabrielli, Luca Remaggi, Stefano Squartini, Vesa Välimäki), *In AES 134th Convention*, 2013.
- 2013 Expressive Physical Modeling of Keyboard Instruments: From Theory to Implementation** (Stefano Zambon, Leonardo Gabrielli, Balazs Bank), *In Audio Engineering Society Convention 134*, 2013.
- 2013 Onset Detection Exploiting Adaptive Linear Prediction Filtering in DWT Domain with Bidirectional Long Short-Term Memory Neural Networks** (Giacomo Ferroni, Erik Marchi, Florian Eyben, Leonardo Gabrielli, Stefano Squartini, Björn Schuller), *In ISMIR 2013, Annual Meeting of the MIREX 2013 community as part of the 14th International Conference on Music Information Retrieval*, 2013.
- 2013 An Embedded-Processor Driven Test Bench for Acoustic Feedback Cancellation in Real Environments** (Francesco Faccenda, Stefano Squartini, Emanuele Principi, Leonardo Gabrielli, Francesco Piazza), *In Audio Engineering Society Convention 134*, 2013.
- 2012 Towards a portable wireless platform for networked performance** (Leonardo Gabrielli, Stefano Squartini, Francesco Piazza), *In Colloqui Informatica Musicale (CIM), Trieste*, 2012.

- 2012 Networked Beagleboards for Wireless Music Applications** (L. Gabrielli, S. Squartini, E. Principi, F. Piazza), *In EDERC 2012*, 2012.
- 2012 Streaming audio Real-Time per applicazioni musicali sulla piattaforma BeagleBoardTowards** (Leonardo Gabrielli, Stefano Squartini, Emanuele Principi, Francesco Piazza), *In Conferenza sul Software Libero (ConfSL)*, Ancona, 2012.
- 2012 A pickup model for the Clavinet** (L. Remaggi, L. Gabrielli, R.C. de Paiva, V. Välimäki, S. Squartini), *In DAFx-2012 (Digital Audio Effects)*, York, UK, 2012.
- 2012 The Yin Yang Theory in Sound and Music: a First Exploration** (L. Gabrielli, D. Gabrielli), *In International Computer Music Conference*, 2012.
- 2012 Ibrida: A New DWT-Domain Sound Hybridization Tool** (L. Gabrielli, S. Squartini), *In 45th AES International Conference*, 2012.
- 2011 Real-time emulation of the Clavinet** (L. Gabrielli, V. Välimäki, S. Bilbao), *In International Computer Music Conference*, 2011.
- 2011 A Subjective Validation Method for Musical Instrument Emulation** (L. Gabrielli, S. Squartini, V. Välimäki), *In 131st Audio Eng. Soc. Convention*, New York, 2011.